

Amendments to the Claims

1. (previously presented) A method to analyze a computer program that includes a plurality of blocks of code, the method comprising:
 - receiving a block of code to a code cache;
 - using a counter for tracking each time said block of code is executed on said code cache;
 - maintaining a counter cache for storing each said counter of said block of code while said block of code is stored on said code cache; and
 - maintaining a storage area for storing [a] each said counter of said block of code previously executed on said code cache after said block of code is evicted from said code cache.
2. (previously presented) The method of Claim 1, further comprising the step of:
 - identifying when said code cache is full.
3. (canceled)
4. (previously presented) The method of Claim 2, further comprising:
 - determining which said counter of said block[s] of code stored on said counter cache is least recently executed; and
 - evicting said least recently executed block of code, related to said counter, from said code cache; and
 - copying said counter of said least recently executed block of code from said counter cache to said storage area when said least recently executed block of code related to said counter is evicted from said code cache.
5. (previously presented) The method of Claim 1, wherein said receiving a block of code to a code cache further comprises:

checking said storage area to determine if said block of code is being executed for other than the first time;

loading said counter associated with said block of code being executed for other than the first time, from said storage area into said counter cache; and

updating said counter associated with said block of code being executed for other than the first time.

6. (original) A system for analyzing a computer program that includes a plurality of blocks of code, comprising:

means for executing said computer program;

means for counting each time one of said plurality of blocks of code is executed;

means for maintaining a counter cache for storing said counting means of said plurality of blocks of code that are most recently executed; and

means for maintaining a storage area for storing said counting means of said plurality of blocks of code that are most recently executed.

7. (currently amended) The system of Claim 6, further comprising:

means for identifying when said ~~counter~~ code cache is full.

8. (currently amended) The system of Claim 7, further comprising:

means for copying said counting means of said plurality of blocks of code from said ~~counter~~ code cache to said storage area when said ~~counter~~ code cache is full.

9. (currently amended) The system of Claim 8, wherein said identifying means further comprises:

means for determining which said counting means of said plurality of blocks of code in said ~~counter~~ code cache is least recently executed; and

means for copying said least recently executed block of code from said ~~counter~~ code cache to said storage area when said ~~counter~~ code cache is full.

10. (previously presented) The system of Claim 8, further comprising:

means for checking a code cache to determine if a block of code is being executed for other than the first time; and

means for loading said counting means associated with said block of code being executed for other than the first time, into said counter cache.

11. (previously presented) A computer readable medium having computer-readable program code embodied therein for causing a computer system to perform a method for analyzing a computer program that includes a plurality of blocks of code comprising:

receiving a block of code to a code cache;

utilizing a counter for tracking each time said block of code is executed on said code cache;

maintaining a counter cache for storing each said counter of said plural block of code while said block of code is stored on said code cache; and

maintaining a storage area for storing each said counter of said block of code previously executed on said code cache after said block of code is evicted from said code cache.

12. (previously presented) The computer readable medium of Claim 11, further comprising:

identifying when said code cache is full.

13. (canceled)

14. (previously presented) The computer readable medium of Claim 12, further comprises:

determining which said counter of said block of code in said counter cache is least recently executed;

evicting said least recently executed block of code, related to said counter, from said code cache; and

copying said counter of said least recently executed block of code from said counter cache to said storage area when said least recently executed block of code related to said counter is evicted from said code cache.

15. (previously presented) The computer readable medium of Claim 13, wherein said receiving a block of code to a code cache further comprises:

checking said storage area to determine if said block of code is being executed for other than the first time;

loading said counter associated with said block of code being executed for other than the first time, from said storage area into said counter cache; and

updating said counter associated with said block of code being executed for other than the first time.

16. (previously presented) A system for analyzing a computer program that includes a plurality of blocks of code, the system comprising:

a counter that tracks each time a specific block of code is executed by a code cache;

a counter cache for storing said counter of a specific block of code while said specific block of code is stored on said code cache; and

a storage area for storing said counter of a specific block of code previously executed on said code cache after said specific block of code is evicted from said code cache.

17. (previously presented) The system of Claim 16, further comprising:

logic that identifies when said code cache is full.

18. (canceled)

19. (previously presented) The system of Claim 17, wherein said logic determines which said counter of said specific block of code stored on said counter cache is least recently executed, evicting said least recently executed block of code related to said counter from said code cache, and copies said counter of said specific block of code from said counter cache to said storage area when said least recently executed specific block of code is evicted from said code cache.

20. (previously presented) The system of Claim 17, wherein said logic checks said storage area to determine if said specific block of code is being executed for other than the first time, and loads said counter associated with said specific block of code being executed for other than the first time, from said storage area into said counter cache, and updating said counter associated with said specific block of code being executed for other than the first time.